

Claims

1. A deaeration device for deaerating water used during ultrasonic focusing tumour ablation treatment, wherein a tap water main inlet is connected to a water purifier and a vacuum pump separately, the common pipe for the cold and heated water from the water purifier and a water heater is connected to a water tank via electromagnetic valves, the vacuum pump is connected to the top of the water tank via electromagnetic valves and a vacuum switching valve, there are content gauges, a thermometer, and vacuum gauges set on the water tank, and the bottom of the water tank is connected to an aqueous capsule via electromagnetic valves and a water pump, said deaeration device is characterized in that

said vacuum pump is a water jet vacuum pump (32);

said water tank is comprised of twin tanks: water tank A (10) and water tank B (18), and a water cycling mechanism with twin-tank alternating vacuum suction is formed by said water jet vacuum pump (32) in connection with said water tank A (10) and water tank B (18) at their tops via a valve assembly composed of four constant-open electromagnetic valves (19, 20, 21, 22); and

two atomizing nozzles (14) are provided at the respective water inlets on the tops of said water tank A (10) and water tank B (18).

2. The deaeration device for deaerating water used during ultrasonic focusing tumour ablation treatment according to Claim 1, characterized in that

a high-level content gauge (11), a low-level content gauge (15), a thermometer (13), and a vacuum gauge (12) being mounted on the top of said water tank A (10), and

a content gauge (17) and a vacuum gauge (16) being mounted on the top of said water tank B (18).